

Transports in Spend Performance Management



Applies to:

SAP Spend Performance Management 2.0 and 2.1, SAP BW, SAP SRM, Implementation Partners, Analytics, SAP eSourcing, Enterprise Performance Management (EPM), Operational Performance Management (OPM). For more information, visit the [Enterprise Performance Management homepage](#).

Summary

Spend Performance Management (SPM) application contains wide array of content including BI objects, UI reports, Configuration, Extractors etc. This Article tries to explain the different transport options available for each type.

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Introduction

Spend Performance Management (SPM) application contains wide array of content including BI objects, UI reports, Configuration, Extractors etc. In many customer landscapes these objects are generally created only in Dev box and then transported to Quality and Production. Due to the wide variety of content there is no single process to transport everything but different options for each one. This Article tries to explain the different transport options available for each type. These object types will be covered in following section:

- UI content (in 20 and 21) – Reports, Dashboard, Application Properties etc.
- Extractors
- Extractor customizing settings
- BI objects – InfoProviders, Queries, Transformations etc.
- Data Management customizing settings – Templates, Global variables etc.

UI Content transport

UI content here refers to the reporting content created in SPM UI. This includes but not restricted to UI reports, Dashboard, Application Properties etc. Content transport has different process for releases 20 and 2.1. For all other objects the steps are same for both the releases.

Content Transport in SPM 2.1

Program OPM_PS_TRANSPORT can be used to transport content. This program has three input parameters:

REQUEST: The transport request number

ROLE: All the content for which this role has authorization will be transported.

GUID: Starting SP05 this program has a third parameter GUID which can be used to transport a single node.

Please note that in a single program run either ROLE based or GUID based transport can be done but not together.

Transport using GUID

To identify the GUID for a particular node you can run the FM OPM_PS_GET_NODES_METADATA. For example if you are trying to transport the public folder, perform following steps:

1. Run the FM OPM_PS_GET_NODES_METADATA with IV_NODE_PATH = 'X' and IV_IS_ALL = 'X'

Test Function Module: Initial Screen

 Debugging
  Test data directory

Test for function group OPM_PS_FRAMEWORK
 Function module OPM_PS_GET_NODES_METADATA
 Uppercase/Lowercase

RFC target sys:

Import parameters	Value
IV_NODE_GUID	<input type="text"/>
IV_NODE_PATH	/
IV_LEVEL	<input type="text"/>
IV_IS_ALL	X

- Identify the folder which need to be transported(/public in this example) and copy the corresponding GUID.

GUID	PARENT_GUID	TYPE	PATH
64E1D9492F952526E10000000A15557D		AUI_FOLDER	/
67E1D9492F952526E10000000A15557D	64E1D9492F952526E10000000A15557D	AUI_FOLDER	/home
6AE1D9492F952526E10000000A15557D	64E1D9492F952526E10000000A15557D	AUI_FOLDER	/groups
6DE1D9492F952526E10000000A15557D	64E1D9492F952526E10000000A15557D	AUI_FOLDER	/sap
70E1D9492F952526E10000000A15557D	64E1D9492F952526E10000000A15557D	AUI_FOLDER	/public

- Execute the transport program with this GUID

Program to transport persistency services objects



ROLE

REQUEST

GUID

- Transport the request from SE09.

Transporting using roles

- Identify the role for which the objects need to be transported. Some commonly used roles are
 - SAP_XA_ADMINISTRATOR : To transport all the content. You can also use some role assigned to a group if you just want to transport the content of a single group.
- Run the transport program with that role.

Program to transport persistency services objects



ROLE

REQUEST

GUID

- Release the transport request.

Note: Before transport please verify if following entries are available in the table OPMFW_CTO.

OPM_OBJECT_TYPE	CTO_OBJECT_TYPE
<input type="checkbox"/> AUI_BOOK	PSBB
<input type="checkbox"/> AUI_CONFIG	PSAP
<input type="checkbox"/> AUI_DASHBOARD	PSDB
<input type="checkbox"/> AUI_DSPA	PSDS
<input type="checkbox"/> AUI_FOLDER	PSFL
<input type="checkbox"/> AUI_NAV_HIER	PSHI
<input type="checkbox"/> AUI_PAGE	PSBP
<input type="checkbox"/> AUI_QUICK_LINKS	PSQL
<input type="checkbox"/> AUI_REL_APP_LINKS	PSRA
<input type="checkbox"/> AUI_REPORT	PSRP
<input type="checkbox"/> SSA_APOR	PSSO
<input type="checkbox"/> SSA_OBI	PSOB
<input type="checkbox"/> SSA_SPAD	PSSA

If not add these entries before running the transport program.

Content Transport in 2.0

You can use the program OPM_TRANSPORT to transport content in 2.0. This program takes as input a tree name and request name.

In the Tree name you can select the SAP delivered tree SSA or any custom tree.

Note 1: Before transport please verify if following entries are available in the table OPMFW_CTO.

Displayed Fields: 2 of 2 Fixed Columns:

OPM_OBJECT_TYPE	CTO_OBJECT_TYPE
<input type="checkbox"/> BOOK	XABO
<input type="checkbox"/> CONF	OPCF
<input type="checkbox"/> DASH	XADS
<input type="checkbox"/> DSPA	OPDP
<input type="checkbox"/> HIER	OPHI
<input type="checkbox"/> NODE	XANO
<input type="checkbox"/> REPC	XARP
<input type="checkbox"/> SPAD	SASA
<input type="checkbox"/> TEXT	OPTX
<input type="checkbox"/> TFMD	OPTF
<input type="checkbox"/> TREE	XATR
<input type="checkbox"/> XATF	XATP

If not add these entries before running the transport program.

Note 2: It has been noticed in some cases that after transport some of the folder to report links are lost and need to be recreated by going into organize content. Please verify this after transport and if needed recreate the links.

Extractor transports

Transporting Extractors/metadata

- a. SPM supports two ways for transporting extractors across system.
- b. Transport Metadata and generate objects independently(Recommended) : In this approach only the extractor metadata is transported across system and the actual objects like Function Modules, Data Sources etc are generated independently in each system. For transporting metadata you can use the program Z_SA_TRANSPORT or transaction Z_SA_TRANS. The specific steps for this approach are included in the extractor configuration doc (Section 1.10) which is available as part of central extractor note 1239883.
- c. In case it is not possible to generate the objects independently in all the systems as might be the case due to system restriction it is possible to collect all the generated objects directly in the transport request and transport them. Following is the list of objects which need to be collected for each extractor:
- d. Function Group, can be seen in the extractor

ABAP Editor: Display FunctionPool SAPLZ_SATST3STDPRICE

FunctionPool: **SAPLZ_SATST3STDPRICE** Active

```

*****
*   System-defined Include-files.                               *
*****
INCLUDE LZ_SATST3STDPRICETOP.           " Global Data
INCLUDE LZ_SATST3STDPRICEUXX.         " Function Modules

*****
*   User-defined Include-files (if necessary).                 *
*****
* INCLUDE LZ_SATST3STDPRICEF...           " Subprograms
* INCLUDE LZ_SATST3STDPRICEO...         " PBO-Modules
* INCLUDE LZ_SATST3STDPRICEI...         " PAI-Modules
    
```

- e. 2 Function module : One for actual extractor and one wrapper for datasource, can be seen in extractor (_DS)

Object Details

Project: TST3 ERP project for release 4.7 and above
 Object: STDPRI Standard Price of Product

Maintenance Data

Created By: JAINDIVY Date: 10.07.2010
 User name: JAINDIVY Date: 26.10.2010 Time: 08:38:39

Object Status

Gen.Status: A Generation successful
 Generated By: JAINDIVY Date: 26.10.2010 Time: 08:38:39
 Function Module: Z_SAI3STDPRICE

- f. Data Source (Z_SADS<project name + object name>)
- g. Extract Structure (ZEXTR<project name + object name>)

Hierarchy Info DataSource Events Segments

DataSource: Z_SADST3STDPRICE

Package: \$TMP Language:

Last Changed By: JAINDIVY Date: 26.10.2010

Long description:

Medium description:

Short Description:

Semantic Attributes	Extraction
DataSource Type: TRAN Hier. Info	Extraction Methods: F1
Appl.Component: NODESNOTCONNECTED	Extractor: Z_SAI3STDPRICE_DS
Content Version:	Extract Structure: ZEXTR_T3STDPRICE
Data Reconciliation: <input type="checkbox"/>	Gen. Interface: <input type="checkbox"/>
Internal Name: <input type="text"/>	Direct Access: <input type="checkbox"/> Duplicate Records
Canc. Fld Name: <input type="text"/>	INit. Non.-Cum.: <input type="checkbox"/>

- h. Data elements and domains in some cases (If there is any special coding and a base data type is given for that field(Like Char or NUMC) and not a table field)

Structure Active

Short Description

Attributes Components Entry help/check Currency/quantity fields

Built-in type 1 / 8

Component	RT...	Component type	Data Type	Length	Deci...	Short Description
XARLPROD	<input type="checkbox"/>	MATNR	CHAR	18	0	Material Number
XARORGSITE	<input type="checkbox"/>	WERKS_D	CHAR	4	0	Plant
XSATCURR	<input type="checkbox"/>	WAERS	CUKY	5	0	Currency Key
XSASTPRIC	<input type="checkbox"/>	STPRS	CURR	11	2	Standard Price
XAREFFROM	<input type="checkbox"/>	LAEPR	DATS	8	0	Date of the last price change
WAERS	<input type="checkbox"/>	WAERS	CUKY	5	0	Currency Key
XSAPRUNIT	<input type="checkbox"/>	PEINH	DEC	5	0	Price Unit
DUMMY	<input type="checkbox"/>	ZSACHAR000001	CHAR	1	0	

Data element Active

Short Description

Attributes Data Type Further Characteristics Field label

Elementary type

Domain

Data Type CHAR Character string

Length 1 Decimal Places 0

Built-in type

Data type

Length Decimal places

Please note that this mechanism will not transport the metadata itself so if the latest metadata should also be visible in Q/Prod system then please transport it independently by following the steps listed in 1.

Transporting Customizing data

Following Customizing tables are used in SPM extractors:

- a. ZSA_GLSPLIT : Split Spend into Tax, Freight etc
- b. ZSA_D_FLDVAL Exclusion Table
- c. ZSA_FFCUSTTABL : Table for flat file customizing

The entries from these tables can directly be added to a transport request if transport is required for these.

1. BW Object transports

For BW objects like infoproviders, transformations, queries etc SPM uses the standard BW transport mechanism. Please refer to the BW documentation for the details. BW documentation on this can be found at http://help.sap.com/SAPhelp_nw70/helpdata/en/0b/5ee7377a98c17fe10000009b38f842/content.htm

The content which needs to be transported will depend on which objects are modified at customer location. In case all of the SPM objects needs to be transported following steps can be used to identify the complete list.

1. Ensure that the step 4 of activating BW content in installation guide has been performed.

Execute the program **SSA_HELPER_PROGRAM** once again.

Enter the value **CREATE_CONTENT_ENTRIES** and choose *Execute* (ignore the P_Version option).

This will create the content entries in the table RSXSA_CONT_OBJ

2. Go to the table RSXSA_CONT_OBJ and collect all the entries listed there for transport. The field GROUPING can be used to identify what grouping option should be used for each object.

000	Only necessary objects
001	Complete scenario from loading to evaluation
002	Backup transport before system copy
003	Objects in data flow above (send data)
004	Objects in data flow below (receive data)
005	Metadata upload (only mapping and dependents)

Data Management transport

Currently there is no program to transport data management entries. Generally these objects are independently in all the systems since they are dependent on system specific properties like Server path, source system connected and data. However, if required, some of these can directly be transported by adding table entries to a request. Following are the relevant tables for different data management objects

1. Templates: RSXATAMPLATE, RSXATAMPLATET, RSXAFLDMAP
2. Upload Types: OPMDM_Types, OPMDM_TypesT
3. Validation Rules: OPMDM_VALI_RULE
4. Global File Parameters: RSXAFILES_GLOBAL
5. Global Settings (File Path, Global Currency etc): RSXAADMIN
6. Systems: OPMDM_SYSTEM
7. Upload Cycle : OPM_CYCLE
8. Data Sources configuration : OPM_SOURCES
9. Concatenation settings : OPMDM_Types_KEY

Related Content

<http://www.sdn.sap.com/irj/scn/weblogs?blog=/pub/wlg/19765>

<http://wiki.sdn.sap.com/wiki/display/CPM/FAQ+-+Data+Extraction+for+Spend+Performance+Management>

<http://weblogs.sdn.sap.com/pub/wlg/19833>

<http://www.sdn.sap.com/irj/scn/index?rid=/library/uuid/d0e51ed5-ee3e-2d10-53b8-f2ef66032843>

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